

What is claimed is:

1. A shot blast machine comprising:

5 a case having a front panel with openings formed at an upper and a lower portions thereof

a support frame for a door, attaching to a back surface of the front panel of the case and supporting the door which opens up the upper opening after it moves slidely to a downward direction;

10 a door which is attached to the support frame slidably to the upper and lower directions , supporting at a state that the upper opening is closed;

a partition wall which is formed in the shape of a hopper and fenced off so as to characterize the upper part of the case as a blast-processing chamber and the lower part thereof as a processing chamber for projection material;

15 a support device attached to blast-processing chamber so as to rotate while the product with weld flash is supported;

a picking device which is installed into the processing chamber, selecting the projection material and weld flash which fall from the partition wall; and

20 a projector which is attached to the case so as to project a projection material to the product with weld flash which is supported by the support device after the projection material which is selected by the picking device is suck in.

2. A shot blast machine according to claim 1, wherein the door further includes a door automatic device, capable of opening and closing the door automatically.

3. A shot blast machine according to claim 1, further comprising:

25 a refrigerant supply device which supplies a refrigerant into the blast-processing chamber.